



Ingham County
Health Department

Opioid Surveillance

Q3 2021



Ingham County Opioid Surveillance

Medical Examiner

Source: Ingham County Medical Examiner,

Data are current as of 10/4/2021. All tables and graphs represent cases through Sept 30, 2021

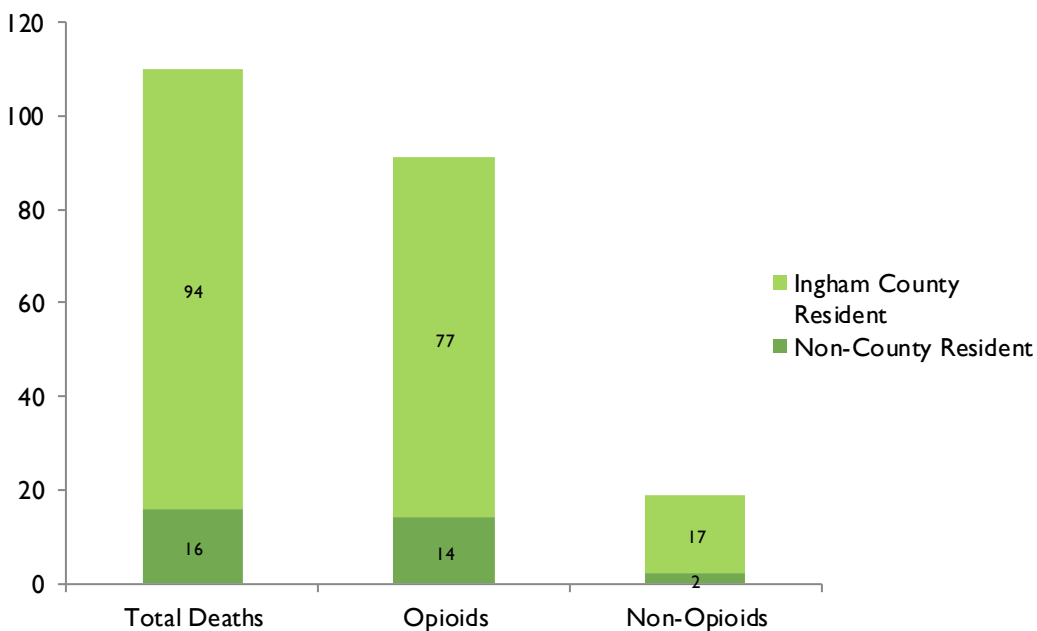
- 110 total drug-related deaths (Table 1 & Fig. 1)
 - 91 deaths were opioid-related.
 - 77 opioid-related deaths were Ingham County residents.
 - 14 opioid-related deaths were non-county residents.
 - 19 deaths were non-opioid-related.
 - 17 non-opioid deaths were Ingham County residents.
 - 2 non-opioid deaths were non-county residents.

Table 1: Number of drug-related deaths by related cause of death and county of residence, Ingham County 2021*

Related Cause of Death	Ingham County Resident	Non-County Resident	Total
Opioids	77	14	91
Non-Opioids	17	2	19
Total	94	16	110

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Figure 1: Drug-related deaths by related cause of death and county of residence, Ingham County 2021*



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Figure 2: Number of opioid-related deaths among residents in Ingham County by month, Ingham County 2019 - 2021*

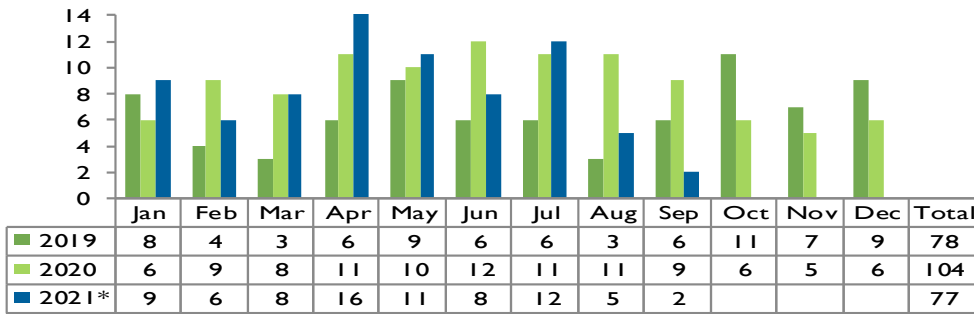


Figure 3: Opioid-related deaths by educational level among Ingham County residents, 2021*

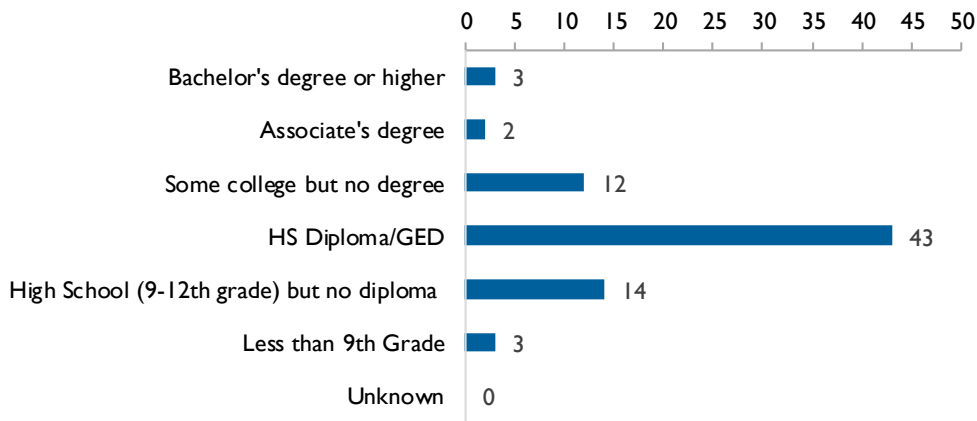
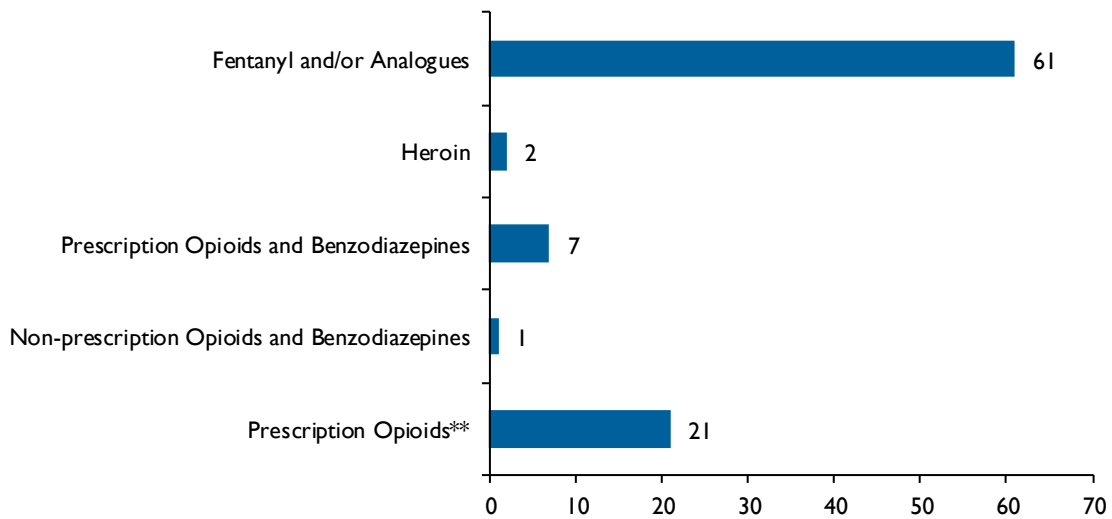


Figure 4: Opioid-related deaths by selected type of opioid among Ingham County residents, Ingham County 2021*



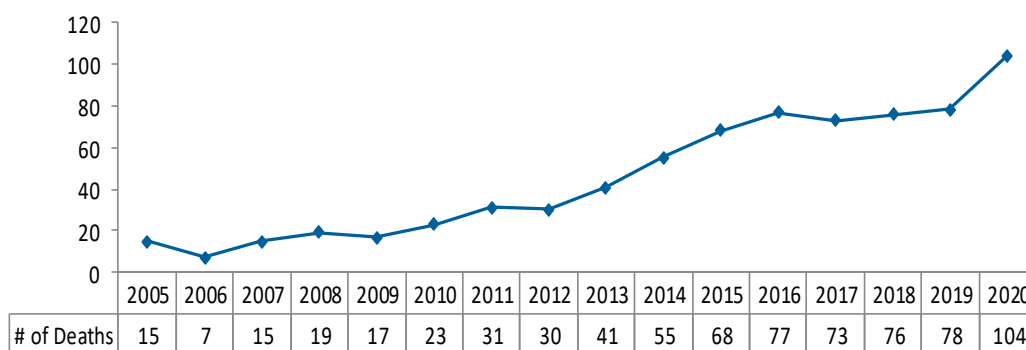
Note: Deaths by type of drug are not mutually exclusive. Often multiple drugs are identified as a related cause of death in a single case.

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**Morphine, Codeine, Methadone, Oxycodone, Hydrocodone, Hydromorphone, Oxymorphone., Tramadol, and Meperidine

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Figure 5: Number of opioid-related deaths among residents in Ingham County by month, 2005-2020**



Sources: 1. Michigan Substance Use Disorder Data Repository based on data from Michigan Death Certificates, Division for Vital Records and Health Statistics/ MDHHS (2004-2013). Retrieved from <http://mi-suddr.com/blog/2018/09/26/opioid-heroin-poisonings/> [Accessed 2/25/2020]
 2. Ingham County Medical Examiner Records (2014 - 2020)

Table 2: Characteristics of Opioid-related deaths among residents in Ingham County, Ingham County 2021**

Decedent Characteristic	Number	Death Rate†	95% CI for Calculated Rate
Total Deaths	77	26.3	20.5-32.3
Sex			
Male	45	31.6	22.4-40.9
Female	32	21.3	13.9-28.7
Age Group			
<15	0	*	*
15-24	3	*	*
25-34	12	*	*
35-44	27	78.8	49.1-108.5
45-54	14	*	*
55-64	15	*	*
≥65	6	*	*
Race			
White	55	25.2	18.5-31.9
Black	21	57.3	32.8-81.9
Other	1	*	*
Hispanic Ethnicity			
Hispanic or Latino	3	*	*
Non-Hispanic or Latino	74	27.5	21.3-33.8
Unknown	0	*	*
Missing	0	*	*
Other Characteristics			
Age (years)			
Median	42		
Mean	45.2		
Range	21 - 68		
Manner of Death			
Accident	73		
Indeterminate	4		
Suicide	0		

†All rates are per 100,000 Ingham County residents

*Data suppressed due to insufficient numbers.

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Ingham County Opioid Surveillance

EMS/ Fire Department

Source: City of Lansing Fire Department/EMS,

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- Each Naloxone incident is defined as Naloxone administered to a person at a specific place and time excluding repeated doses.
- Total number of Naloxone incidents 321
 - Number of Naloxone incidents (1 dose administered per person) 163
 - Number of Naloxone incidents (2 doses administered per person) 114
 - Number of Naloxone incidents (3 doses administered per person) 35
 - Number of Naloxone incidents (4 or more doses administered per person) 9
 - Average age: 42.9 years, Median age: 40 years

Figure 6: Number of Naloxone incidents by month in Ingham County, 2019 - 2021*

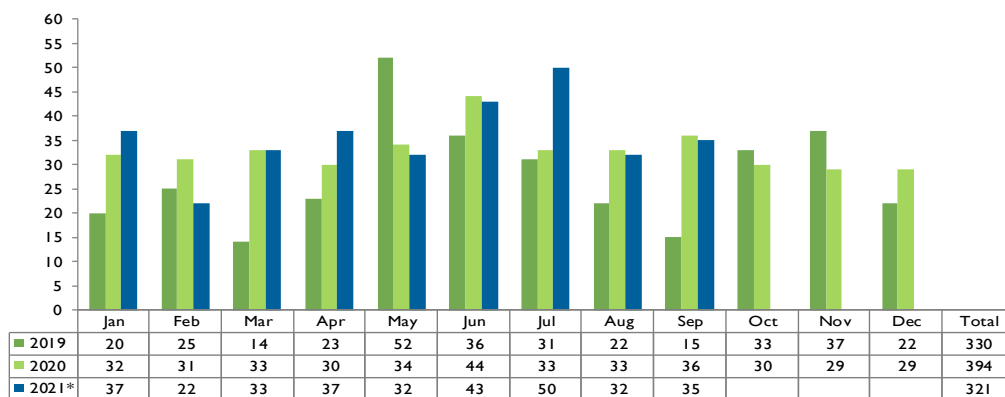


Table 3: Naloxone incidents by demographic characteristics, City of Lansing, 2021*

Characteristic	Count	Percent
Sex		
Male	222	67.8%
Female	99	32.7%
Missing	0	0.0%
Age Group		
<15	0	0.0%
15-24	24	7.0%
25-34	77	26.1%
35-44	88	25.1%
45-54	49	15.1%
55-64	54	17.1%
≥65	22	8.5%
Missing	7	1.0%
Race		
White		0.0%
Black		0.0%
Other Race		0.0%
Missing	321	100.0%
Total	321	100.0%

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Ingham County Opioid Surveillance

Law Enforcement Data

Sources: East Lansing Police Department and Lansing Police Department (Lansing only). Drug Overdose Incidents in Tri-County Area through Sept 30, 2021*

- 175 drug overdose incidents:
 - 146 survived
 - 29 died
- Average age: 35.9 years
- Median age: 34.0 years

Table 4: Number of drug overdose-related cases (including overdose-related deaths) by law enforcement jurisdiction and month of incident, Tri-County Area 2021*

Jurisdiction	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year-to-Date
Bath Twp													0
Charlotte PD													0
Delhi Twp													0
DeWitt Twp PD													0
ECSD													0
CCSO/CCSD		1											1
E. Lansing PD			1	1	2								4
ICSO/ICSD	1	2	2	3	1	2							11
Lansing PD	17	9	23	19	16	20	21	15	19				159
Lansing Charter Twp PD													0
Mason/ICSO Assist													0
Meridian Charter Twp PD													0
Williamston PD													0
Total	18	12	26	23	19	22	21	15	19	0	0	0	175

Source: Ingham County law enforcement jurisdictions (ICSO - Ingham County Sheriff's Office, CCSO - Clinton County Sheriff's Office, ECSD - Eaton County Sheriff's Office, MTPD - Meridian Township Police Dept.)

*Data are current as of 10/7/2021. All tables and graphs represent cases through Sept 30, 2021.

Table 5: Number of drug overdose-related deaths by law enforcement jurisdiction and month of incident, Tri-County Area 2021*

Jurisdiction	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year-to-Date
Bath Twp													0
CCSO/CCSD		1											1
Charlotte PD													0
DeWitt Twp PD													0
ELPD						2							2
ICSO/ICSD			1	2									3
Lansing PD	1	1	3	2	2	3	4	3	4				23
MTPD													0
Total	1	2	4	4	2	5	4	3	4	0	0	0	29

Source: Ingham County law enforcement jurisdictions

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Ingham County Opioid Surveillance

Emergency Department Visit Data

Source: Michigan Syndromic Surveillance System,

Data are current as of 10/28/2021. All tables and graphs represent cases through Sept 30, 2021*

- Total of 233 opioid overdose-related visits
 - Average age : 39.8 years
 - Median age: 36.0 years

Figure 7: Number of Opioid Overdose-related Emergency Department Visits by Month, Ingham County 2021*

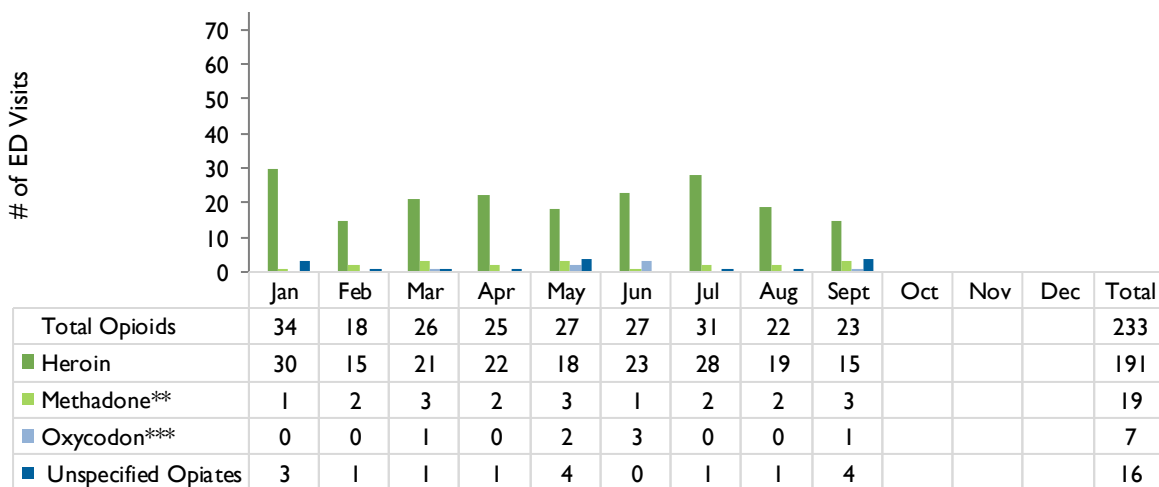
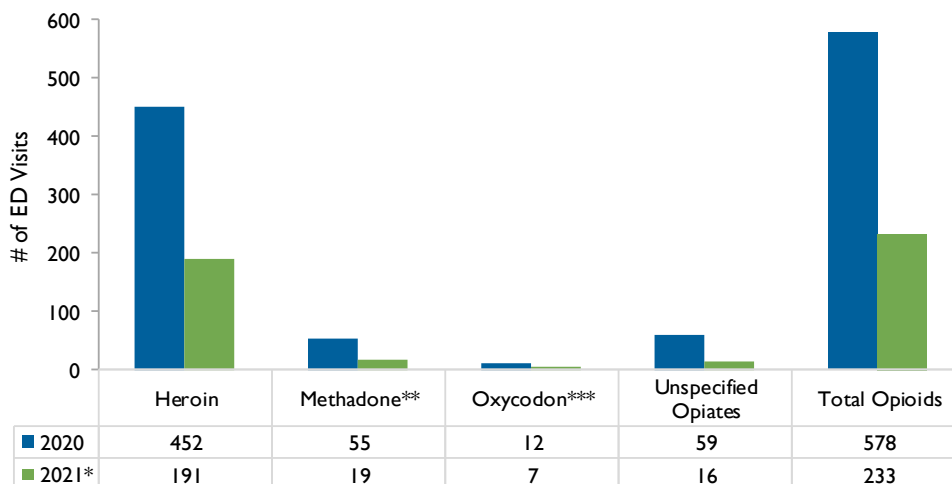


Figure 8: Number of Opioid Overdose-related Emergency Department Visits by Year, Ingham County 2020 - 2021*



Source: Michigan Syndromic Surveillance System

*Data are current as of 10/28/2021. All tables and graphs represent cases through Sept 30, 2021

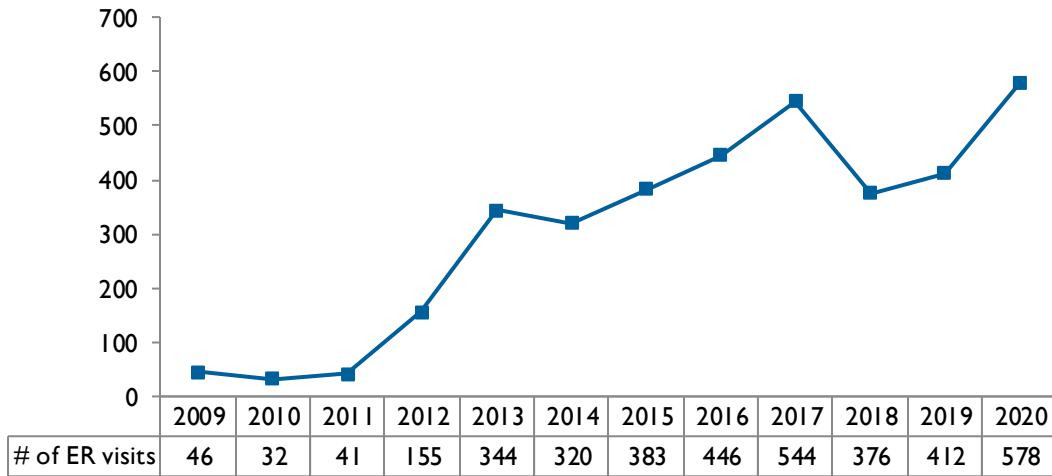
**"Methadone" includes Methadone, Buprenorphine, and Suboxone.

***"Oxycodone" includes Oxycodone (Oxycontin) and Oxymorphone.

Note: Numbers are based on emergency department visit (chief complaints) and before any confirmed diagnoses are made.

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Figure 9: Number of Overdose-related Emergency Department Visits Ingham County, 2009-2020



Source: Michigan Syndromic Surveillance System, 2020

Ingham County Opioid Surveillance

Ingham County Department of Health and Human Services (DHHS)

Source: Department of Health and Human Services (DHHS)

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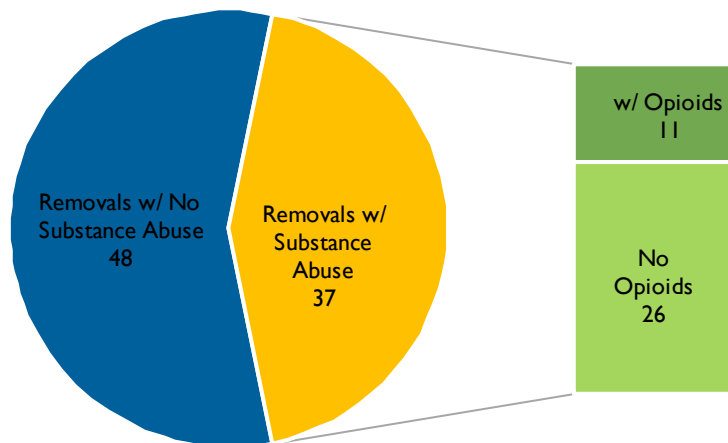
- Total of 85 child removals (167 children)
- 37 removals involved substance abuse
- 11 removals involved opioids

On average, 4 removals per month involved substance abuse and 1 opioids.

Table 6: Number of Child Removals by Month, Ingham County 2021*

Child Removals	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Year to Date
Total Removals	7	6	15	7	10	10	12	8	10				85
Substance Abuse	5	2	6	0	4	5	5	5	5				37
Opioids	2	0	2	0	2	2	0	1	2				11
Non-Substance Abuse	3	2	4	0	2	3	5	4	3				26
No Substance Abuse	2	4	9	7	6	5	7	3	5				48

Figure 10: Total Number of Child Removals by Substance Abuse, Ingham County 2021*



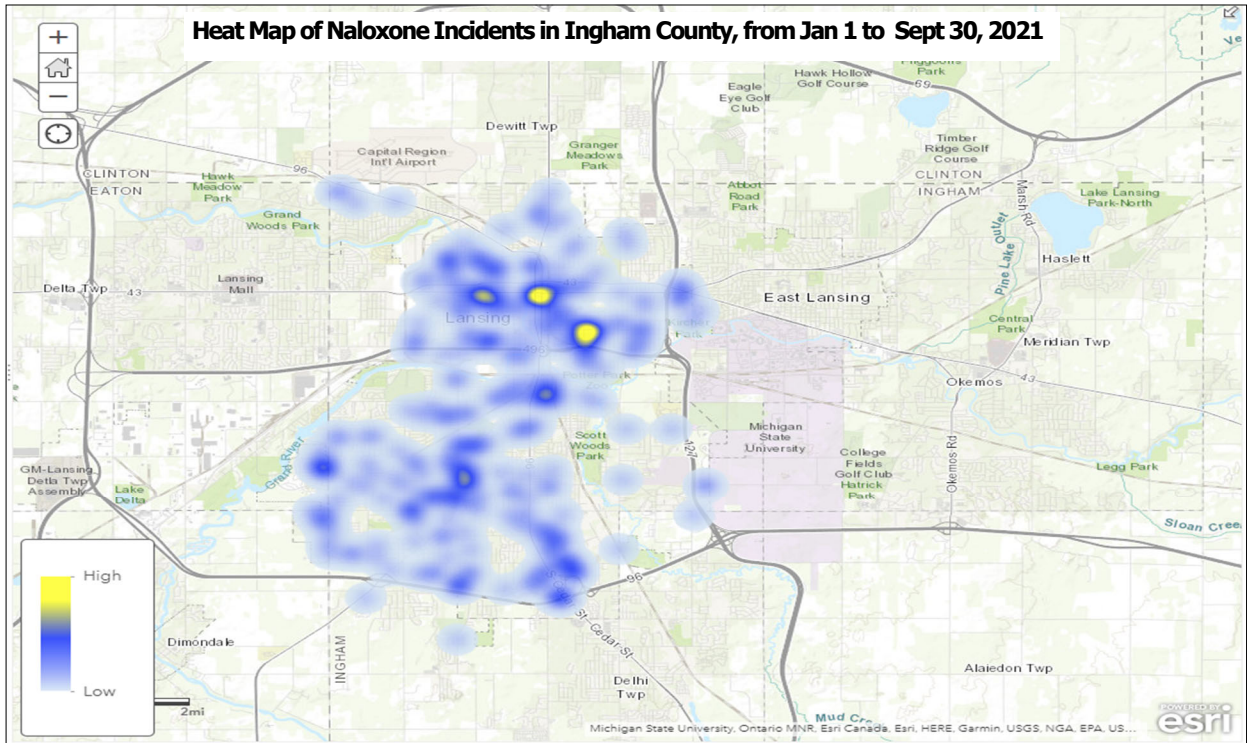
Total DHHS Removals = 85

Source: Ingham County Department of Health and Human Services (DHHS)

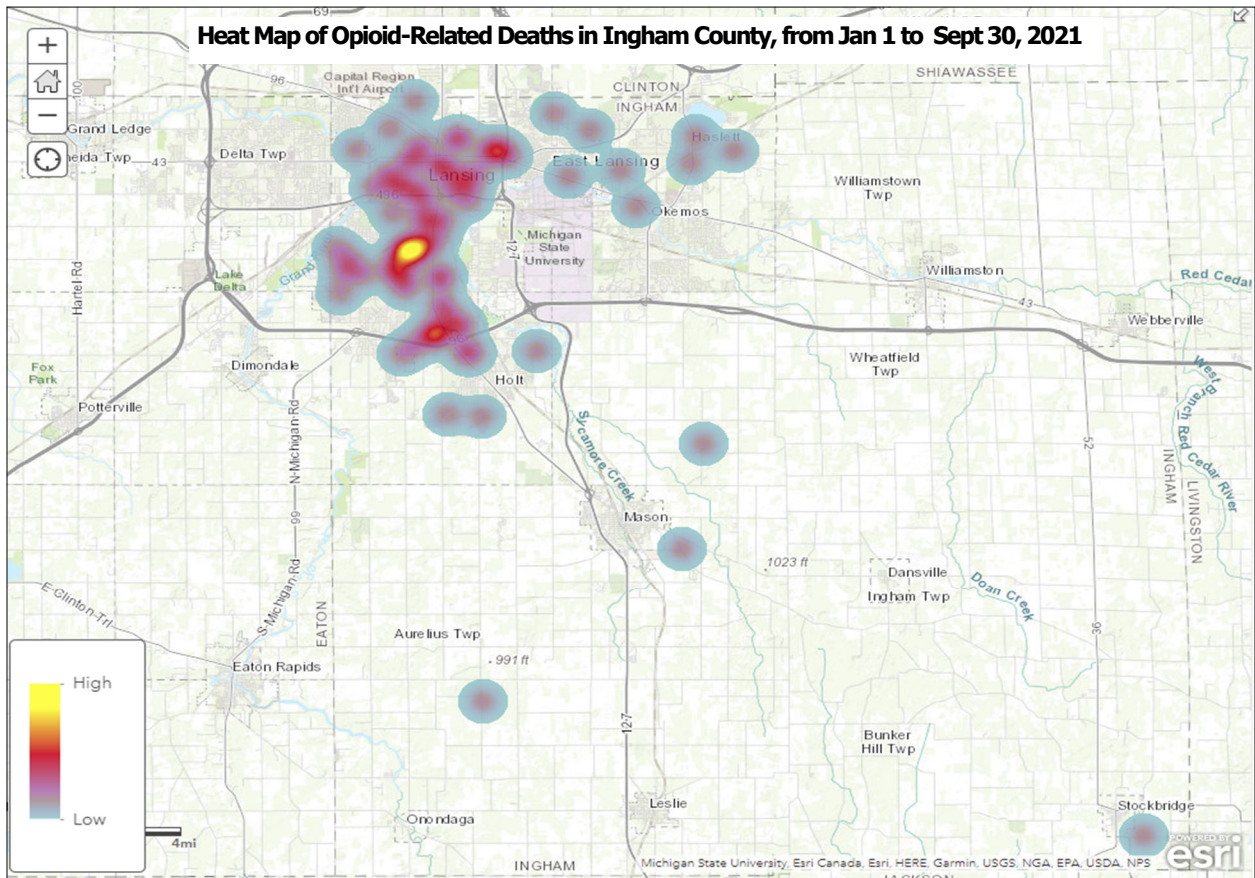
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Important Note: Counts reported in this document do not represent final numbers. They are subject to change after cases are updated by the data source.

Ingham County Opioid Surveillance



Source: Lansing EMS



Source: Ingham County Medical Examiner (geocoded residential addresses of the deceased, not the location where the event occurred)